

1000000 900000 800000 700000 600000 500000 400000 300000 200000 100000 0

E. Coli

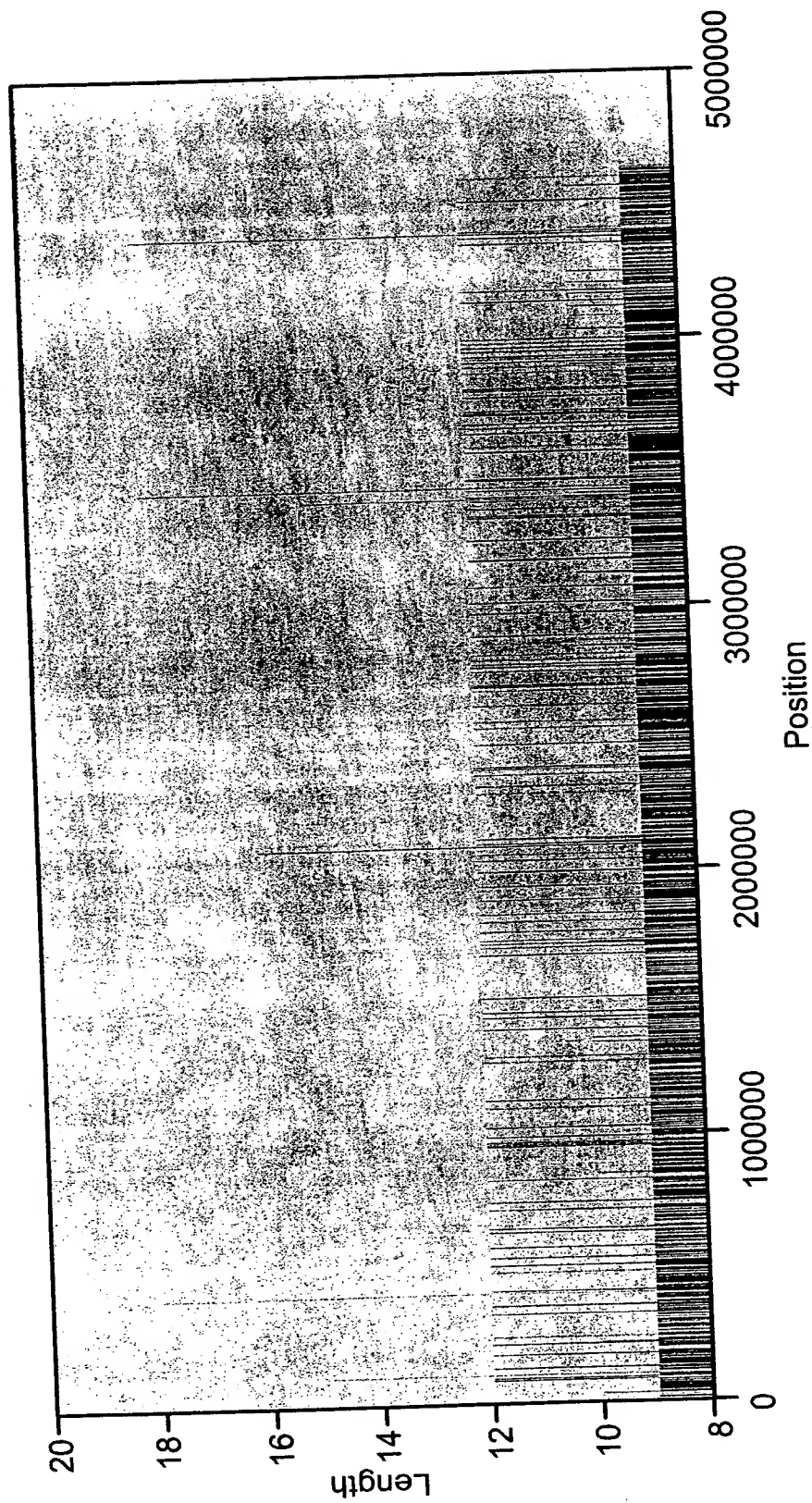


Fig. 1a

1000000 900000 800000 700000 600000 500000 400000 300000 200000 100000 0

Bacillus Subtilis

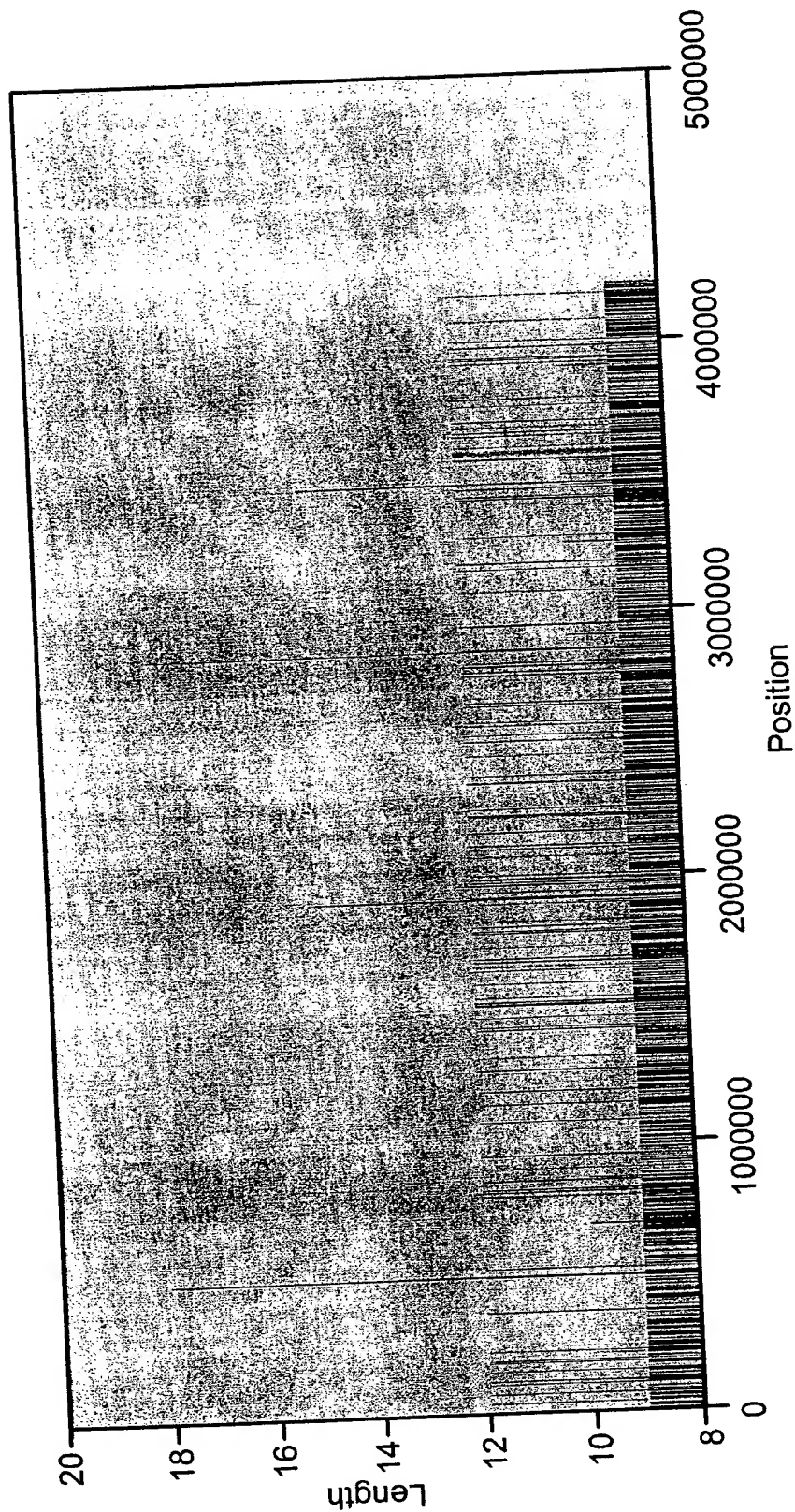


Fig. 1b

Archaeoglobus fulgidus

Archaeoglobus fulgidus

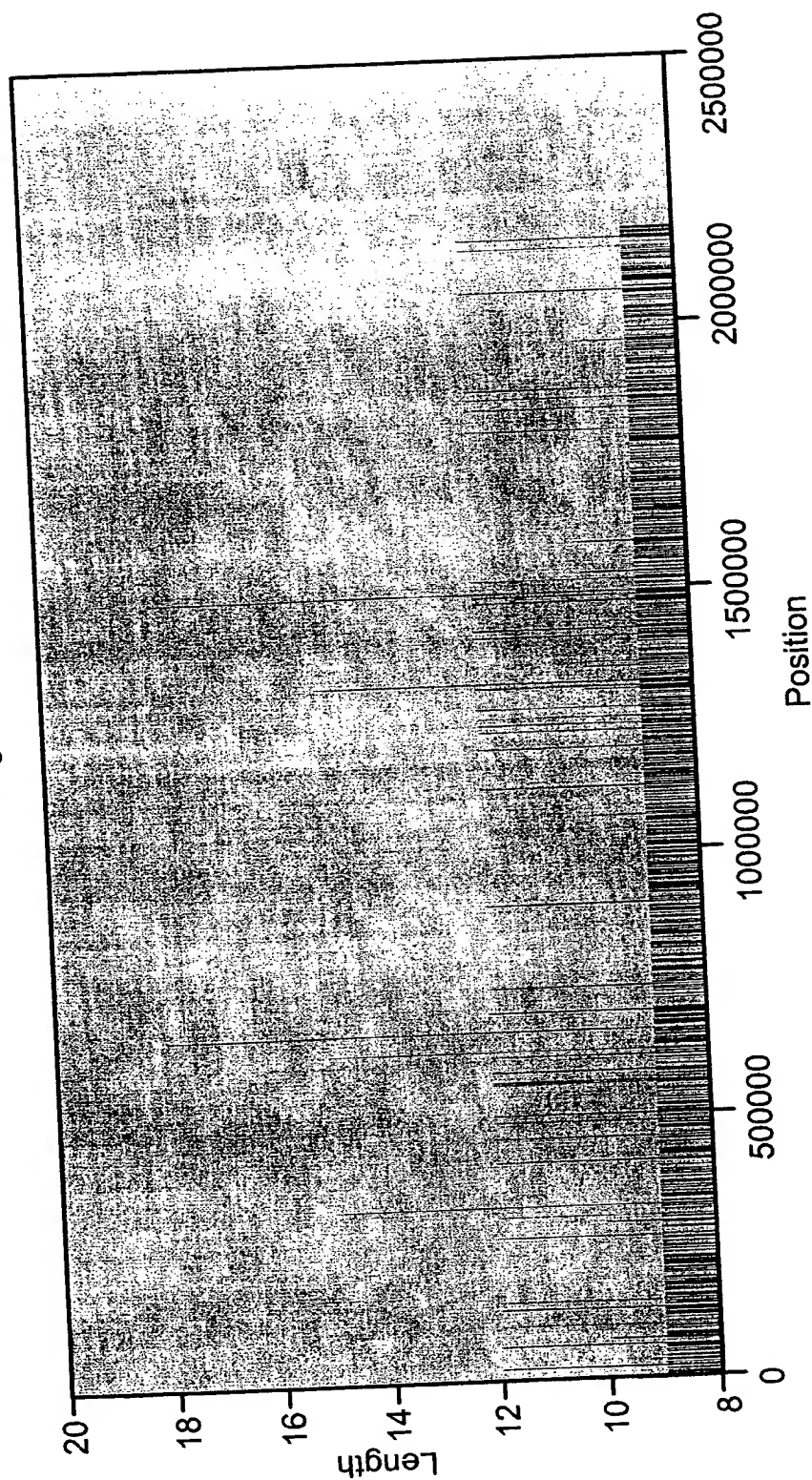
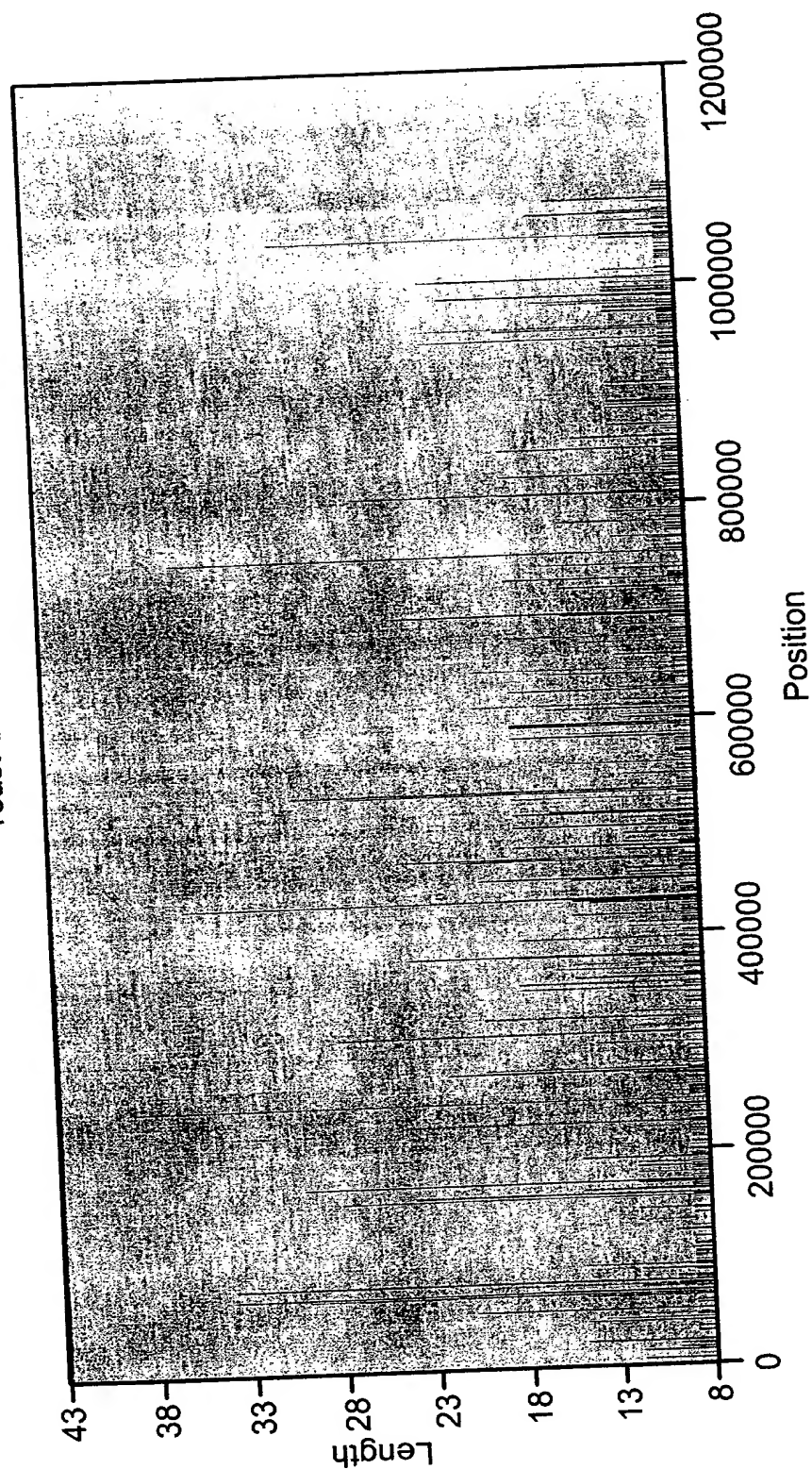
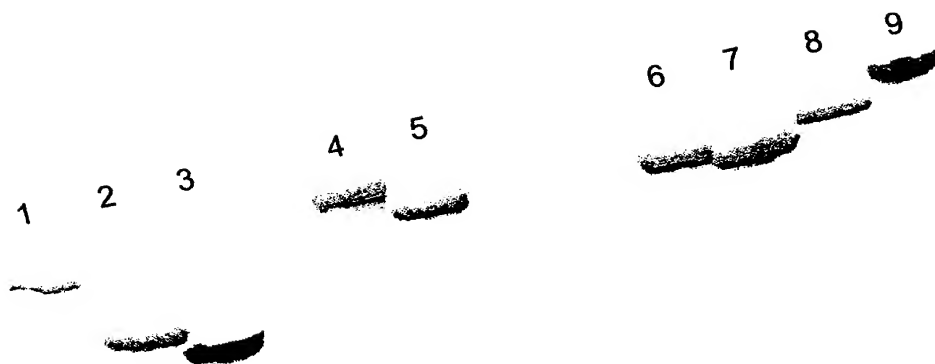


Fig. 1c

Yeast Chromosome 7

Fig. 1d





[Faint handwritten notes, possibly bleed-through from the reverse side.]

1 50
Ec K12, DH5α ---GTTATGT CTTATCCCAC GGTATTTAAT ATGGTTCATT AGGATGTTTA 25*
Ec Bsr9b -TTGTTATGT CTTATCCCAC GGTATTTAAT ATAGTTCATT TGGATGTTCA 26*
Ec Bsr9c TTTGTTATGT CTTATCCCAC GGTATTTAAT ATAGTTCATT TGGATGTTCA 27*
Ec ETEC -TCTATGTTT TTATCNCAC GGTNTTTAAT ATGGTTCATT AGGATGTTTA 28*
Consensus -----T-T-- -T---CCCAC GGTATTTAAT AT-GTTCATT -GGATGTT-A 29*

51 100
Ec K12, DH5α TTTCTTGATT TTGCATATGA GTATATTA.. CCCCCCCTC AAAAAAATAA
Ec Bsr9b TTTCTTTATT TTGCATATGA GTATATTA..CCCCTT CAAAAAATAA
Ec Bsr9c TTTCTTTATT TTGCATATGA GTATATTA..CCCCTT CAAAAAATAA
Ec ETEC TTTCTTGATT TTGCATATGA GTATATTACC CCCCCCCTC AAAAAAATAA
Consensus TTTCTT-ATT TTGCATATGA GTATATTA-- ----CCCCT- -AAAAAATAA

101 150
Ec K12, DH5α ATTAATTAAA ATGATGGCTT ATATAAAATA AAATTTAAAG CAAGGAATCT
Ec Bsr9b ATTAATTAAA ACGATTGCTT ATATAAAACA AAATTTAAAG CAAGGAATCT
Ec Bsr9c ATTAATTAAA ACGATTGCTT ATATAAAACA AAATTTAAAG CAAGGAATCT
Ec ETEC ATTAATTAAA ATGATGGCTT ATATNAAATA NAATTTAAAG CAAGGANTCT
Consensus ATTAATTAAA A-GAT-GCTT ATATAAAA-A AAATTTAAAG CAAGGAATCT

151 200
Ec K12, DH5α CAATGGATGT TAAACAAAAT GAGATTTTGT GAAAGCAATA AATTATTGAC
Ec Bsr9b CAATGGATGT TAAACAAAAT GAGATTTAGT GAAAACAATA AATTATTCAC
Ec Bsr9c CAATGGATGT TAAACAAAAT GAGATTTAGT GAAAACAATA AATTATTCAC
Ec ETEC CAATGGATGT TAAACANAAT GAGATTTTGT GAANGCNATN NATTATTGNC
Consensus CAATGGATGT TAAACAAAAT GAGATTT-GT GAAA-CAATA AATTATT-AC

201 250
Ec K12, DH5α TTCGTTTTAG ATTTGTTTAG CTATAATGTT ATACATTCAA ATGACTGAAC
Ec Bsr9b TTCGTTTTAG ATTTGTTTAG CTATAATGTT ATACATTCAA ATGACTGAAC
Ec Bsr9c TTCGTTTTAG ATTTGTTTAG CTATAATGTT ATACATTCAA ATGACTGAAC
Ec ETEC TTCGTTGTAN ATTTGCTNAG CTATAATGTT ATNCATTCAA ATGACTGAAC
Consensus TTCGTT-TAG ATTTG-TTAG CTATAATGTT ATACATTCAA ATGACTGAAC

251 264
Ec K12 DH5α ATCCTGTAAT TAAA
Ec Bsr9b ATCCTGTATT TAA-
Ec Bsr9c ATCCTGTAAT TAA-
Ec ETEC ATCCTGTNNT TANA
Consensus ATCCTGTAAT TAA-

* SEQ ID NO

Fig. 3a

	1				50	
<i>Ec</i> K12, DH5α	TTTNCCC	GGA	AAAAA	ATAGG	AAAGGGGGG	GGGCTAATCG GCAGGGAAGG 30*
<i>Ec</i> K12, w3110	TNTTN	NNCGG	AAAAA	AATNG	AAAGGGGGG	GGGCTAATCG GCAGGGAAGG 31*
<i>Ec</i> Bsr9c	--TTTN	CCCG	AAAAA	AATNG	AAA..GGGGG	GGGCTAATCG GCAGGGAAGG 32*
<i>Ec</i> (wt) 1	--TNTN	CCGGA	AAAAA	ANAGG	AAAGGGGGG	GGGCTAATCG GCAGGGAAGG 33*
<i>Ec</i> (wt) 54	-----	NCG	GAAAA	AATG	AAA.GGGGG	GGGCTAATCG GCAGGGAAGG 34*
<i>Ec</i> (wt) 68	-----	CG	GAAAA	AATG	AAA.GGGGG	GGGCTAATCG GCAGGGAAGG 35*

Consensus ----- -AAAAA--G AAA--GGGGG GGGCTAATCG GCAGGGAAGG 36*

	51				100
<i>Ec</i> K12, DH5α	CCGCCCC	GGA	TAGCG	GGCGG	CANAAGGAAT CANAATTTCC AGGTCAGACG
<i>Ec</i> K12, w3110	CCGCCCC	GGA	TAGCG	GGCGG	CAGAAGGAAT CAGAATTTCC AGGTCAGACG
<i>Ec</i> Bsr9c	CCGCCCC	GGA	TAGCG	GGCGG	CAGAAGGAAT CAGAATTTCC AGGTCAGATG
<i>Ec</i> (wt) 1	CCGCCCC	GGA	TAGCG	GGCGG	CAGAAGGAAT CAGAATTTCC AGGTCAGACG
<i>Ec</i> (wt) 54	CCGCCCC	GGA	TAGCG	GGCGG	CAGAAGGAAT CAGAATTTCC AGGTCAGATG
<i>Ec</i> (wt) 68	CCGCCCC	GGA	TAGCG	GGCGG	CAGAAGGAAT CAGAATTTCC AGGTCAGATG

Consensus CCGCCCCGGA TAGCGGGCGG CAGAAGGAAT CAGAATTTCC AGGTCAGA-G

	101				150
<i>Ec</i> K12, DH5α	GGCTG	CAAGT	TGCAG	ACCGT	TAAAATCATC GGNNGGGGTG TCGTACCACA
<i>Ec</i> K12, w3110	GGCTG	CAAGT	TGCAG	ACCGT	TAAAATCATC GGTTGGGGTG TCGTACCACA
<i>Ec</i> Bsr9c	GGCTG	CAAGT	TGCAG	ACCGT	TATAATCATC GGTTGGGGTG TCGTACCACA
<i>Ec</i> (wt) 1	GGCTG	CAAGT	TGCAG	ACCGT	TAAAATCATC GGTTGGGGTG TCGTACCACA
<i>Ec</i> (wt) 54	GGCTG	CAAGT	TGCAG	ACCGT	TATAATCATC GGTTGGGGTG TCGTACCACA
<i>Ec</i> (wt) 68	GGCTG	CAAGT	TGCAG	ACCGT	TATAATCATC GGTTGGGGTG TCGTACCACA

Consensus GGCTGCAAGT TGCAGACCGT TA-AATCATC GGTTGGGGTG TCGTACCACA

	151			180
<i>Ec</i> K12, DH5α	CTTTAC	CTGC	CAGCCC	AGATTAA-GTT -G
<i>Ec</i> K12, w3110	CTTTAC	CTGC	CAGCCC	AGATTAA-GTT -G
<i>Ec</i> Bsr9c	CTTTAC	CTGC	CAGCCC	AGATTAA-GTT -G
<i>Ec</i> (wt) 1	CTTTAC	CTGC	CAGCCC	AGATTAAAGTT TGG
<i>Ec</i> (wt) 54	CTTTAC	CTGC	CAGCCC	AGAT-AAAGTT TGG
<i>Ec</i> (wt) 68	CTTTAC	CTGC	CAGCCC	AGAT-AAAGTT TGG

Consensus CTTTACCTGC CGTCAGCCC AGAT-AA-GTT -G

* SEQ ID NO

Fig. 3b

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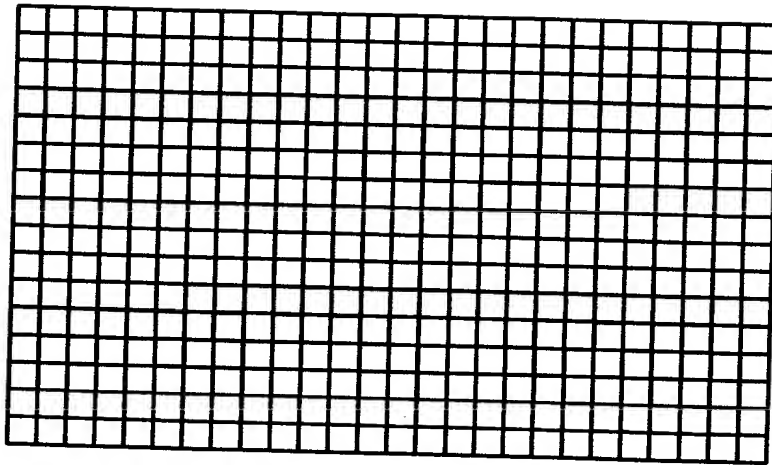


Fig. 4